

IN THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

1-24. (Canceled)

25. (Currently Amended) A method of providing sealed access through an incision comprising:

making an incision in a patient;

providing a surgical device comprising ~~a proximal ring~~, a distal ring[,], and a tubular diaphragm extending ~~between the proximal ring and~~ proximally from the distal ring;

coupling the surgical device to the patient solely by inserting the distal ring through the incision such that at least a portion of the diaphragm extends through and engages the incision, ~~and the proximal ring is located outside of the incision;~~

inserting an object through an entry seal assembly coupled to the ~~proximal ring of the surgical device~~, through the diaphragm, and into the patient; and

sealing the object with the entry seal assembly.

26. (Previously Presented) A method as claimed in claim 25, wherein the object includes at least part of a human arm.

27. (Previously Presented) A method as claimed in claim 25, wherein the object includes at least part of an instrument.

28. (Previously Presented) A method as claimed in claim 25, further including moving the entry seal assembly between an unsealed configuration and a sealed configuration, and locking the entry seal assembly in the sealed configuration.

29. (Previously Presented) A method as claimed in claim 25, further including engaging a detached, separate first component with a second component, the first and second components forming the entry seal assembly.

30. (Previously Presented) A method as claimed in claim 29, wherein the first component includes a surgical glove.

31. (Previously Presented) A method as claimed in claim 25, wherein the entry seal assembly includes a first member and a second member connected together by a sleeve member, the method further including rotating the first and second members relative to one another to seal the object.

32. (Previously Presented) A method as claimed in claim 31, wherein the first member includes a first ring, and the second member includes a second ring.

33. (Previously Presented) A method as claimed in claim 32, wherein the first ring includes a circular shape, and the second ring includes a circular shape.

34. (Previously Presented) A method as claimed in claim 32, further including locking the first and second rings together in a sealing configuration.

35. (Currently Amended) A method as claimed in claim 25, wherein the entry seal assembly includes a sleeve extending between a seal mechanism and ~~[[the]]~~ a proximal ring of the surgical device.

36. (Currently Amended) A method as claimed in claim ~~[[25]]~~ 101, wherein the proximal ring includes a circular shape, and the distal ring includes a circular shape.

37. (Currently Amended) A method as claimed in claim [[25]] 101, wherein the proximal ring, distal ring, and diaphragm have approximately the same inner diameter.

38. (Previously Presented) A method as claimed in claim 25, wherein the entry seal assembly engages a proximal-most portion of the surgical device.

39. (Previously Presented) A method as claimed in claim 25, wherein the distal ring is larger than the incision.

40. (Previously Presented) A method as claimed in claim 25, further including biasing the tubular diaphragm against the incision.

41. (Currently Amended) A surgical device providing sealed access through an incision in a patient, the device comprising:

a distal ring;

~~a proximal ring;~~

a tubular diaphragm extending ~~between the~~ proximally from the distal ring ~~and the proximal ring;~~

a single patient coupling assembly forming substantially the only coupling between the surgical device and the patient, the single patient coupling assembly including the distal ring, ~~the proximal ring~~ and the tubular diaphragm; and

an entry seal assembly coupled to the ~~proximal ring~~ tubular diaphragm and distal ring, and located proximal of the tubular diaphragm and distal ring.

42. (Previously Presented) A surgical device as claimed in claim 41, wherein the entry seal assembly is configured to receive and seal at least part of a human arm.

43. (Previously Presented) A surgical device as claimed in claim 41, wherein the entry seal assembly is configured to receive and seal at least part of an instrument.

44. (Previously Presented) A surgical device as claimed in claim 41, wherein the entry seal assembly is movable between an unsealed configuration and a sealed configuration, and the entry seal assembly includes a locking assembly configured to secure the entry seal assembly in the sealed configuration.

45. (Previously Presented) A surgical device as claimed in claim 41, wherein the entry seal assembly includes a first component and a second component, the first component being completely detachable from the second component.

46. (Previously Presented) A surgical device as claimed in claim 45, wherein the first component includes a surgical glove.

47. (Previously Presented) A surgical device as claimed in claim 41, wherein the entry seal assembly includes a first member and a second member connected together by a sleeve member, the first and second members being rotatable relative to one another to seal the object.

48. (Previously Presented) A surgical device as claimed in claim 47, wherein the first member includes a first ring, and the second member includes a second ring.

49. (Previously Presented) A surgical device as claimed in claim 48, wherein the first ring includes a circular shape, and the second ring includes a circular shape.

50. (Previously Presented) A surgical device as claimed in claim 48, wherein the entry seal assembly includes a locking assembly configured to secure the first and second rings together.

51. (Currently Amended) A surgical device as claimed in claim 41, wherein the entry seal assembly includes a sleeve extending between a seal mechanism and ~~[[the]]~~ a proximal ring of the surgical device.

52. (Currently Amended) A surgical device as claimed in claim ~~[[41]]~~ 103, wherein the proximal ring includes a circular shape, and the distal ring includes a circular shape.

53. (Currently Amended) A surgical device as claimed in claim ~~[[41]]~~ 103, wherein the proximal ring, distal ring, and diaphragm have approximately the same inner diameter.

54. (Previously Presented) A surgical device as claimed in claim 41, wherein the entry seal assembly forms a proximal-most portion of the surgical device.

55. (Previously Presented) A surgical device as claimed in claim 41, wherein the distal ring is larger than the incision.

56 - 71 (Canceled)

72. (Currently Amended) A surgical device providing sealed access through an incision in a patient, the device comprising:

a distal ring having a size larger than the incision;

a proximal ring;

a tubular diaphragm extending between the distal ring and the proximal ring and configured to engage the incision to form a seal against the incision;

a single patient coupling assembly forming substantially the only coupling between the surgical device and the patient, the single patient coupling assembly including the distal ring, ~~the proximal ring~~ and the tubular diaphragm; and

an entry seal assembly coupled to the proximal ring.

73. (Previously Presented) A surgical device as claimed in claim 72, wherein the entry seal assembly is configured to receive and seal at least part of a human arm.

74. (Previously Presented) A surgical device as claimed in claim 72, wherein the entry seal assembly is configured to receive and seal at least part of an instrument.

75. (Previously Presented) A surgical device as claimed in claim 72, wherein the entry seal assembly is movable between an unsealed configuration and a sealed configuration, and the entry seal assembly includes a locking assembly configured to secure the entry seal assembly in the sealed configuration.

76. (Previously Presented) A surgical device as claimed in claim 72, wherein the entry seal assembly includes a first component and a second component, the first component being completely detachable from the second component.

77. (Previously Presented) A surgical device as claimed in claim 76, wherein the first component includes a surgical glove.

78. (Previously Presented) A surgical device as claimed in claim 72, wherein the entry seal assembly includes a first member and a second member connected together by a sleeve member, the first and second members being rotatable relative to one another to seal the object.

79. (Previously Presented) A surgical device as claimed in claim 78, wherein the first member includes a first ring, and the second member includes a second ring.

80. (Previously Presented) A surgical device as claimed in claim 79, wherein the first ring includes a circular shape, and the second ring includes a circular shape.

81. (Previously Presented) A surgical device as claimed in claim 79, wherein the entry seal assembly includes a locking assembly configured to secure the first and second rings together.

82. (Previously Presented) A surgical device as claimed in claim 72, wherein the entry seal assembly includes a sleeve extending between a seal mechanism and the proximal ring.

83. (Previously Presented) A surgical device as claimed in claim 72, wherein the proximal ring includes a circular shape, and the distal ring includes a circular shape.

84. (Previously Presented) A surgical device as claimed in claim 72, wherein the proximal ring, distal ring, and diaphragm have approximately the same inner diameter.

85. (Previously Presented) A surgical device as claimed in claim 72, wherein the entry seal assembly forms a proximal-most portion of the surgical device.

86. (Currently Amended) A surgical device providing sealed access through an incision in a patient, the device comprising:

a distal ring;

a proximal ring;

a tubular diaphragm extending between the distal ring and the proximal ring, the distal ring, ~~proximal ring~~, and diaphragm configured to provide substantially the only seal between the patient incision and the device; and

an entry seal assembly coupled to the proximal ring.

87. (Previously Presented) A surgical device as claimed in claim 86, wherein the entry seal assembly is configured to receive and seal at least part of a human arm.

88. (Previously Presented) A surgical device as claimed in claim 86, wherein the entry seal assembly is configured to receive and seal at least part of an instrument.

89. (Previously Presented) A surgical device as claimed in claim 86, wherein the entry seal assembly is movable between an unsealed configuration and a sealed configuration, and the entry seal assembly includes a locking assembly configured to secure the entry seal assembly in the sealed configuration.

90. (Previously Presented) A surgical device as claimed in claim 86, wherein the entry seal assembly includes a first component and a second component, the first component being completely detachable from the second component.

91. (Previously Presented) A surgical device as claimed in claim 90, wherein the first component includes a surgical glove.

92. (Previously Presented) A surgical device as claimed in claim 86, wherein the entry seal assembly includes a first member and a second member connected together by a sleeve member, the first and second members being rotatable relative to one another to seal the object.

93. (Previously Presented) A surgical device as claimed in claim 92, wherein the first member includes a first ring, and the second member includes a second ring.

94. (Previously Presented) A surgical device as claimed in claim 93, wherein the first ring includes a circular shape, and the second ring includes a circular shape.

95. (Previously Presented) A surgical device as claimed in claim 93, wherein the entry seal assembly includes a locking assembly configured to secure the first and second rings together.

96. (Previously Presented) A surgical device as claimed in claim 86, wherein the entry seal assembly includes a sleeve extending between a seal mechanism and the proximal ring.

97. (Previously Presented) A surgical device as claimed in claim 86, wherein the proximal ring includes a circular shape, and the distal ring includes a circular shape.

98. (Previously Presented) A surgical device as claimed in claim 86, wherein the proximal ring, distal ring, and diaphragm have approximately the same inner diameter.

99. (Previously Presented) A surgical device as claimed in claim 86, wherein the entry seal assembly forms a proximal-most portion of the surgical device.

100. (Previously Presented) A surgical device as claimed in claim 86, wherein the distal ring is larger than the incision.

101. (New) A method as claimed in claim 25, wherein the surgical device further includes a proximal ring, the proximal ring being located outside the patient after the coupling of the surgical device to the patient.

102. (New) A method as claimed in claim 101, wherein the entry seal assembly is coupled to the proximal ring and located proximal of the proximal ring.

103. (New) A surgical device as claimed in claim 41, wherein the surgical device further includes a proximal ring located between the tubular diaphragm and the entry seal assembly.

104. (New) A surgical device as claimed in claim 103, wherein the entry seal assembly is coupled to the proximal ring and located proximal of the proximal ring.